SECRET

PRIORITY

1971 FEB 5 16 47

OUT: 71690

P 051625Z FEB 71
FM NPIC WASHDC
TO RHCOAAA/SAC OFFUTT AFB OMAHA NEBR
RHCOAAA/544TH ARTW OFFUTT AFB OMAHA NEB
RUCILBA/100TH SRW OL 19 MCCOY AFB FLA
RUVRRIA/DIR MAT MGT/MMW ROBBINS AFB, GA
RUWMODA/100TH SRW DAVIS MONTHAN AFB ARIZ
RUWMODA/12 SAD DAVIS MONTHAN AFB ARIZ
RUEBJRA/NAVRECONTECHSUPPCEN SUITLAND MD
RUEAIIA/CIA WASH DC
RUEKJCS/DIA
RUWBKNA/15TH AF MARCH AFB RIVERSIDE CALIF
RUEFHQA/HQS USAF
BT
S E C R E T CITE NPIC 0293
SAC FOR DIRI, DOSR, DISD, DM4C; 100 SRW DAVIS MONTHAN AFB FOR DO, DCOI, DCM, AEMS; 12 SAD FOR MD; DIA FOR DC5C; HQ USAF FOR AFIGOS, AFXOTR; 15TH AF FOR DI, DO, DM4C.
SUBJECT: EVAL OF OLD HEAD MSG G-178; 28 JAN 71

1. IMAGE QUALITY: THE IMAGE QUALITY AND INTERPRETATION SUITABILITY OF THE CLOUD FREE PHOTOGRAPHY IS GOOD. MOST IMAGERY MAINTAINS EDGE SHARPNESS ABOVE 25X. CLOUDS OBSCURE 20 PCT OF ENTIRE MSN. THIS IS THE FIRST OLD HEAD TO UTILIZE A WRATTEN-12 FILTER (SEE PARA 5 FOR COMMENTS).

2. MSN DATA:
   A. MSN: G-178; DATE: 28 JAN 71
   B. CAM: IRIS II; UNIT: 0005
   C. A/C: 340
   D. CAM MODE: STEREO
   E. VEHICLE T/O: 1150Z; CAM/ON: 1403Z
   F. FILM: 3414
   G. CHEMISTRY: MX819-1; PROCESS FAC: NRTSC
   H. AVG GAMMA ORIG NEG: 1.97
   I. EXPOSURE SLIT: 0.060 IN.
   J. FILTER: W-12
   K. SPEED (AEI) AVG: 3.14

3. ORIG NEG:
   A. EXPOSURE: GOOD, SEE PARA 5.
   B. DENSITY: MEDIUM; CONTRAST: MEDIUM.
   C. IMAGED DEGRADATIONS: NONE NOTED.
   D. PHYSICAL DEGRADATIONS: EMULSION LIFTS OCCURRED ON MANY FRAMES THROUGHOUT THE MSN. TITLING RESIDUE FLAKES ARE PRESENT WITHIN THE FORMAT OF SOME FRAMES.
   E. DATA RECORD EQUIP: FUNCTIONED THROUGHOUT THE MSN.
   F. OTHER: LAST TITLED FR 1200; COUNTER 1203; BIAS CONSTANT THROUGHOUT. A TOTAL OF 33 AFT FRS WERE DROPPED AT RANDOM THROUGHOUT THE MSN. THE CAUSE OF THIS PROBLEM IS UNKNOWN; HOWEVER, FILM MISMETERING IS ASSOCIATED WITH A FEW OF THESE FRS.

4. POSITIVES: GOOD FOR INTERPRETATION PURPOSES.

5. REMARKS: AN EXPOSURE EVALUATION OF THIS MSN INDICATES A 0.25 STOP UNDEREXPOSURE AT THE BEGINNING AND 0.25 STOP OVEREXPOSURE AT THE END. THIS REPRESENTS THE BEST POSSIBLE FIXED EXPOSURE FOR THE MISSION PARAMETERS; I.E., 30 TO 50 DEGREES SOLAR ELEVATION RANGE, A W-12 FILTER, A 0.06 IN. SLIT WIDTH, AND 3414 FILM TYPE. THE IMAGE QUALITY OF THIS MSN

SECRET

DISTRIBUTION

CY	OFFICE	PI
1/2	[illegible]	
	[illegible]	
3/4	TSG/IEB	
5	25X1	
6		

IS COMPARABLE TO PAST MISSIONS WHICH USED A W-23A FILTER AND 3414 FILM TYPE. TO FURTHER EVALUATE THE EXPOSURE PARAMETERS OF THE OLD HEAD PROGRAM, WE SUGGEST A FUTURE MSN BE FLOWN USING W-12 FILTER, 3414 FILM TYPE, AND A 6.06 IN. SLIT WIDTH. THIS MSN SHOULD BE FLOWN PRIOR TO 16 FEB 71 AND PHOTO ACQUISITION SHOULD BEGIN AT A SOLAR ELEVATION OF 20 DEGREES (0600 LOCAT TIME).
EOM
GP-1
S E C R E T

--END OF MESSAGE--

1

1